Performance guarenteed

CD40 Monoclonal Antibody (1C10), PerCP-eFluor 710, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Mouse
Host/Isotype	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), PerCP-eFluor 710, eBioscience™
Class	Monoclonal
Туре	Antibody
Clone	1C10
Conjugate	PerCP-eFluor™ 710
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.1% gelatin
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2573678

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.5 μg/test	19 Publications

Product Specific Information

Description: The 1C10 monoclonal antibody reacts with mouse CD40, a 45-50 kDa type I transmembrane glycoprotein. CD40 is a member of the TNFR family and is expressed by mouse B lymphocytes, follicular dendritic cells, thymic epithelium, and a subset of peripheral T cells. CD40 regulates B cell development/maturation by inducing Ig isotype switching and in combination with other signals such as IL-4, protects B cells from surface Ig-induced apoptosis and promotes proliferation. Interaction of CD40 with CD154 (gp39), its ligand on T cells, is important in T-B cell crosstalk and plays a role in costimulation and immune regulation.

The monoclonal antibody 1C10 is reported to have agonistic activity in vitro and in vivo.

Applications Reported: The 1C10 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This 1C10 antibody has been tested by flow cytometric analysis of mouse splenocytes. This can be used at less than or equal to 0.5 μ g per test. A test is defined as the amount (μ g) of antibody that will stain a cell sample in a final volume of 100 μ L. Cell number should be determined empirically but can range from 10^5 to 10^8 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

PerCP-eFluor® 710 emits at 710 nm and is excited with the blue laser (488 nm); it can be used in place of PerCP-Cyanine5.5. We recommend using a 710/50 bandpass filter, however, the 695/40 bandpass filter is an acceptable alternative. Please make sure

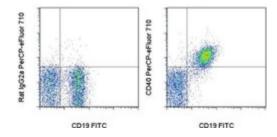
that your instrument is capable of detecting this fluorochrome.

Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 µL cell sample + 100 µL IC Fixation Buffer) or 1-step Fix /Lyse Solution (cat. 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency /compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

Excitation: 488 nm; Emission: 710 nm; Laser: Blue Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD40 Monoclonal Antibody (1C10), PerCP-eFluor 710, eBioscience™



CD40 Antibody (46-0401-82) in Flow

Staining of BALB/c splenocytes with Anti-Mouse CD19 FITC (Product # 11-0193-82) and 0.25 μ g of Rat IgG2a K Isotype Control PerCP-eFluor® 710 (Product # 46-4321-82) (left) or 0.25 μ g of Anti-Mouse CD40 PerCP-eFluor® 710 (right). Cells in the lymphocyte gate were used for analysis.

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□ 19 References

Flow Cytometry (19)

Nature communications	Species Mouse
CD103 ⁺ cDC1 and endogenous CD8 ⁺ T cells are necessary for improved	Dilution Not Cited Year 2020
CD40L-overexpressing CAR T cell antitumor function.	
"46-0401 was used in Flow cytometry/Cell sorting to demonstrate the stimulatory effect of CD40L-overexpressing CAR T cells on innate and adaptive immune cells, and provide a rationale for using CD40L-overexpressing CAR T cells to improve immunotherapy responses."	
Authors: Kuhn NF,Lopez AV,Li X,Cai W,Daniyan AF,Brentjens RJ	
Nature communications	Species
Senolytics prevent mt-DNA-induced inflammation and promote the	Not Applicabl
survival of aged organs following transplantation.	Dilution
"Published figure using CD40 monoclonal antibody (Product # 46-0401-82) in Flow Cytometry"	Not Cited

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